THE 9TH BIANNUAL

CYBER SECURITY SUMMIT

April 15, 2020
Virtual Format

UNIVERSITY OF CALIFORNIA

Welcome

Dear Colleagues,

Welcome to the ninth biannual Cyber Security Summit! Thank you for joining us and special thanks to our sponsors and our organizer, UC's Cyber-Risk Coordination Center (C3). Today, we are delighted to welcome experts who will speak to us about improving policy, enhancing collaboration, combatting cybercrime, and safeguarding healthcare. This is our first virtual summit and we're excited about the new opportunities this format will provide.

Every summit, we build on a rich tradition of information sharing among IT professionals from across the University of California system, California State University, and the California Community Colleges. Our goal has always been to share our collective expertise in order to better safeguard UC's mission of teaching, research, and public service. Now, as we adjust to a new, even if temporary, normal, this goal continues to be of the utmost importance. Enhancing cybersecurity and mitigating risk are absolutely vital to all of us as we rely heavily on the ability to connect virtually. We are grateful that you can join us today.

Thank you for the work that you do. Please enjoy the summit!

DAVID RUSTING
UC Systemwide Chief Information Security Officer

Agenda

9:00am	**WELCOME AND INTRODUCTION TO VIRTUAL FORMAT** DAVID RUSTING, *Systemwide CISO, UCOP* MARK CIANCA, *Interim Vice President, UC Chief Information Officer* MONTE RATZLAFF, *Director, Cyber Risk Program*
9:15am	**ACTIVITY	Where in the World?** JARED YOUNG, 360 Destination Group
9:20am	**KEYNOTE	A Public, Private War: How the U.S. Government and U.S. Technology Sector Can Build Trust and Better Prepare for Conflict in the Digital Age** JONATHAN REIBER, *Senior Director for Cybersecurity Strategy and Policy*, AttackIQ From Edward Snowden's disclosures to Google's Project Maven, the U.S. government and U.S. technology sector have at times struggled to agree on matters of national security. This is a challenge for U.S. cybersecurity because the private sector owns and operates so much of the infrastructure of cyberspace. Interviews over the last two years reveal a path forward, however. This talk outlines historical examples of cooperation between public and private sectors and specific recommendations for improving U.S. cybersecurity.
10:00am	**SPONSOR PRESENTATION	Security and Privacy in the Age of COVID-19** CINDY COMPERT, IBM Security
10:15am	**ACTIVITY	Family Feud** JARED YOUNG, 360 Destination Group
10:25am	**INVITED TALK	The Art of Solving Novel Problems in InfoSec** JACK RHYSIDER, *Host, Darknet Diaries Podcast* InfoSec is a tech frontier. The map is not drawn, and the edge of knowledge is often closer than we think. Those of us who work in InfoSec today face new challenges all the time. We are tasked with solving problems that no one has ever solved before. In this talk, Rhysider asks: "how do we solve novel problems?" His talk is designed to help audience members identify challenges and prepare solutions.
11:00am	**SPONSOR PRESENTATION	Measuring Your Security Program with Intelligence-Based Validation** CHRIS SCHREIBER, FireEye
11:20am	**ACTIVITY	Home Scavenger Hunt** JARED YOUNG, 360 Destination Group
11:25am	**INVITED TALK	Tales from the Darkside: Robbing Companies from 9 to 5** STEPHANIE CARRUTHERS, *Global Social Engineering Lead,* IBM's X-Force Red For the past seven years, Stephanie has robbed companies of some of their most sensitive data. Through email, over the phone, and by physically breaking in, she has gathered large amounts of proprietary information. Yet, Stephanie has never set foot in jail. This is because she's a hired robber. Companies engage her to find their security weaknesses before the bad guys do. In this presentation, Stephanie will recount tales of her past exploits, breaking down how these attacks are perpetrated and what makes them successful. After each tale, Stephanie will explain how companies could have stopped her and how you can, too.

Agenda

12:00pm	**SPONSOR PRESENTATION | Protecting Educational Institutions against Ransomware** JACKIE CASTELLI, CrowdStrike
12:10pm	**LUNCH | Breakout Rooms** IBM Security, Crowdstrike, FireEye, Fortinet, and Marcus Cappellazzo
1:10pm	**ACTIVITY | Awkward Celebrity Yoga** JARED YOUNG, 360 Destination Group
1:15pm	**INVITED TALK | Understanding the Threat: Malicious Software, Malicious Actors, and the Promise of Connected Medical Technology** CHRISTIAN DAMEFF, MD, *Medical Director of Cybersecurity,* UC San Diego Health Modern medicine has benefited from numerous advances in technology, including digital tools, devices, and infrastructure. However, a model that privileges data security and regulatory compliance does not address patient safety concerns in the hyper-connected world of healthcare. Medical devices often rely on insecure software and hardware that could potentially harm or even kill patients if compromised. While we can enhance security through research, engineering, and best practices, these steps are only the beginning. New healthcare security paradigms are needed; and, to be effective, they must involve diverse team members and close collaboration between clinicians and technical teams who can identify risks to both patient privacy and patient safety.
1:50pm	**SPONSOR PRESENTATION | The New Norm: Strategies for Securing Your Institution** RENEE TARUN, Fortinet
2:10pm	**ACTIVITY | Trivia** JARED YOUNG, 360 Destination Group
2:15pm	**INVITED TALK | TIPPSS (Trust, Identity, Privacy, Protection, Safety, Security) for Enabling and Securing our Increasingly Connected World** FLORENCE HUDSON, *CEO,* FDHint Advanced technology innovations, including the Internet of Things (IoT), artificial intelligence, machine learning, big data and analytics, and blockchain, are enabling an increasingly connected world. They also create risks to our physical health and safety, financial reputation, data privacy, data protection, and our civil rights. While we leverage advanced technologies to improve the human experience, accelerate scientific discovery, deliver efficiencies, and enable seamless data sharing, we must mitigate these risks. We need standards to ensure TIPPSS (Trust, Identity, Privacy, Protection, Safety and Security) for the success, safety, and security of humans, devices, data, and our world.
2:50pm	**CLOSING REMARKS** DAVID RUSTING, *Systemwide CISO, UCOP*

Speakers

JONATHAN REIBER

KEYNOTE, Senior Director for Cybersecurity Strategy and Policy, AttackIQ

Jonathan Reiber is a writer, security strategist, Affiliate at UC Berkeley's Center for Long-Term Cybersecurity, and Senior Director for Cybersecurity Strategy and Policy at AttackIQ. From serving in senior positions in the U.S. Department of Defense under President Obama to leading cybersecurity strategy for companies in Silicon Valley, he advises governments, companies, and organizations on public policy, security strategy, and public communications. A widely published writer and frequent public speaker, he holds degrees in religion and international relations from Middlebury College and The Fletcher School.

JACK RHYSIDER

Founder and Host, Darknet Diaries Podcast

Jack Rhysider has worked as a network security engineer for over a decade. He is most known for creating the podcast *Darknet Diaries*, which features true stories from the dark side of the Internet. The podcast shares the tales of hackers and those who have been hacked. Jack configures firewalls and IDSs as well as builds SIEMs and SOC to detect threats in the network. He holds a BS in computer science.

Speakers

STEPHANIE CARRUTHERS

Global Social Engineering Lead, IBM's X-Force Red

Stephanie "Snow" Carruthers is a professional liar performing social engineering as a service for her clients. She specializes in a variety of assessments, including OSINT, phishing, vishing, covert entry, and red team exercises. She has worked with clients of all sizes, from start-ups to Fortune 100 companies. Stephanie serves today as Global Social Engineering Lead for IBM's X-Force Red. Since 2014, Stephanie has presented and taught at numerous security conferences and private events around the world. She has earned black badges for winning the "Social Engineering Capture the Flag" at DEF CON 22 and "The Vault" at SAINTCON 2017. Stephanie also enjoys traveling the world and meeting new people, like Melanie, who just let her into your data center.

CHRISTIAN DAMEFF, MD

Medical Director of Cybersecurity, UC San Diego Health

Christian Dameff, MD is an assistant professor of Emergency Medicine, Biomedical Informatics, and Computer Science and Engineering at the University of California San Diego. He serves as the Medical Director of Cybersecurity at UCSD Health. Dameff is also a hacker and security researcher interested in the intersection of healthcare, patient safety, and security. He has spoken at some of the world's most prominent hacker forums, including DEF CON, Derbycon, BSides, RSA, Blackhat. He is also one of the co-founders of the CyberMed Summit, a novel multidisciplinary conference with a focus on infrastructure and medical device cybersecurity.

FLORENCE HUDSON

CEO, FDHint

Florence Hudson is founder and CEO of FDHint, a company offering consulting services in advanced technology and diversity and inclusion. She serves as Special Advisor for the NSF Cybersecurity Center of Excellence at Indiana University and for the Northeast Big Data Innovation Hub at Columbia University and is also the Editor-in-Chief of the book *Women Securing the Future with TIPPSS for IoT*. A former IBM VP and Chief Technology Officer, Internet2 Senior VP, Chief Innovation Officer, and aerospace engineer at Grumman and NASA, today, she serves on boards for Princeton University, Cal Poly San Luis Obispo, Stony Brook University, Blockchain in Healthcare Today, and IEEE.

Performers

JARED YOUNG

Engagement Specialist,
360 Destination Group

Jared brings fun, laughs, and
challenges to any event, whether
online or in-person. He engages
audiences with his natural southern
charm and energetic personality.
Jared is known as an engagement
specialist because he turns meetings
into experiences. He builds
connection and community, helping
participants see the true value in
their presence and relationships.

MARCUS CAPPELLAZZO

Founder, Cappell Entertainment

Marcus Cappellazzo is an award-
winning Australian-born musician
who has been entertaining
audiences for over 15 years. Today,
he specializes in live music and
DJ entertainment for weddings,
events, and at local venues in the
San Francisco area. He has played at
corporate events for NASCAR, SFO
International Airport, Salesforce,
Ebates, Google, and Amazon.

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between cybersecurity
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and more secure UC.

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CINDY COMPERT

Distinguished Engineer & Security CTO
US Public Sector,
IBM Security

It is crucial for organizations to help their business continue to operate securely while also enabling remote workers and studies to have a frictionless work-from-home or learn-from-home experience. In this talk, we address key topics related to this issue, including remote work, distance learning, and the expanded threat landscape's impact on privacy.

JACKIE CASTELLI

Director, Product Marketing,
CrowdStrike

Although ransomware is widespread and affects all sectors, noticeable trends show that it targets specific sectors, including educational institutions. In this short talk, we discuss some real life incidents and the impacts observed from these targeted operations. We also offer recommendations for how to protect against ransomware.

CHRIS SCHREIBER

Global Pursuit Specialist,
FireEye

Reporting the status of your security program to non-security stakeholders has always been tough. CISOs and CIOs often rely on audits, penetration tests, and operations metrics. In this talk, we discuss how to assess and continually track your actual ability to prevent, detect, and respond to threats in near real time.

RENEE TARUN

VP, Information Security and Deputy CISO,
Fortinet

Digital transformation has been thrust upon higher ed institutions, whether they are ready or not. With this new norm comes tremendous opportunity, but the increased risk to networks, intellectual property, and personal information remains a challenge. This presentation addresses strategies for how to adapt and stay a step of ahead of adversaries.

Save the Date

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The 10th Biannual

CYBER
SECURITY
SUMMIT

October 14, 2020
UCLA

The University of California Cyber-Risk
Coordination Center (C3) has already
begun planning the tenth Biannual
Cyber Security Summit.

We welcome your suggestions about
possible topics and speakers. Please
contact uccybersummit@ucop.edu.